**Maths Inquiry: Probability Portfolio Task**

Names:

**INSTRUCTION 1:**

**In pairs you will put 20 unifix blocks into your paper bag. You will need to have the following in your bag.**

|  |  |
| --- | --- |
| Colour | How many? |
| Red | 10 |
| Blue | 3 |
| Yellow | 4 |
| Black | 1 |
| Green | 2 |
| Total Number of Blocks = 20 | |

**a)** What are the chances of pulling out a red unifix block? How would you say   
 this as a percentage?  
  
Answer:

50%

**b)** What colours are less likely to be chosen out of the bag? Why?

Black, Green, Blue because they have the least amount

Answer:

**INSTRUCTION 2:   
You will pull 14 blocks out of the bag. Each person will have 7 turns. After you have done this, group the colours together that you have drawn out of the bag. Record how many of each colour you have in the table below.**

|  |  |
| --- | --- |
| Colour | How many? |
| Red | 6 |
| Blue | 2 |
| Yellow | 3 |
| Black | 1 |
| Green | 2 |
| Total Number of Blocks = 14 | |

Part 2: Representing Date using graphs.

**INSTRUCTION 1:   
You are going to use Microsoft Excel to represent your data and produce a line graph and a bar graph. After completing your graphs in Microsoft Excel, copy and paste them into this document so you can analyse your data.**

Our Bar Graph

Our Line Graph

Explain why you think you got the results you got.

I think that we got the most red because there was more in the bag there for there was more chance.

Which graph would you prefer to use and why?  
o

I like to use the bar graph because it is solid and it is easy to understand.